XX7V1A1PAM12

ultrasonic sensor parallelepipedic - Sn 0.5 m - NO - M12 connector





Main

Range of product	Telemecanique Ultrasonic sensors XX	
Sensor type	Ultrasonic sensor	
Series name	General purpose	
Sensor name	XX7	
Sensor design	Flat form 18 x 33 x 60 + cylindrical M18	
Detection system	Diffuse	
[Sn] nominal sensing distance	0.5 m adjustable with remote teach push-button	
Material	Plastic	
Type of output signal	Discrete	
Discrete output function	1 NO	
Wiring technique	3-wire	
Discrete output type	PNP	
[Us] rated supply voltage	1224 V DC with reverse polarity protection	
Electrical connection	Male connector M12 4 pins	
[Sd] sensing range	0.0510.508 m	
Beam angle	12 °	
IP degree of protection	IP67 conforming to IEC 60529	

Complementary

Complementary	
Enclosure material	Valox
Front material	Ероху
Supply voltage limits	1028 V DC
[Sa] assured operating distance	0.0510.508 m (teach mode)
Maximum differential travel	2.5 mm
Blind zone	051 mm
Transmission frequency	300 kHz
Repeat accuracy	1.27 %
Minimum size of detected object	Cylinder diameter 2.5 mm at 0.15 m Flat bar 1 mm wide at 0.15 m
Status LED	Supply on: 1 LED (green) Output state: 1 LED (yellow)
Current consumption	40 mA
Maximum switching current	100 mA
Maximum voltage drop	1 V
Switching frequency	<= 40 Hz
Maximum delay first up	100 ms
Maximum delay response	10 ms
Maximum delay recovery	10 ms
Marking	CE
Height	44 mm
Width	18 mm
Depth	60 mm

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not inherent or and is not to be used for determining suitability or inhability of these products for specific user applications. It is the dourn aren in integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Environment

Standards	IEC 60947-5-2	
Product certifications	UL	
Ambient air temperature for operation	-2065 °C	
Ambient air temperature for storage	-4080 °C	
Vibration resistance	+/-1 mm conforming to IEC 60068-2-6 (f = 1055 Hz)	
Shock resistance	30 gn in all 3 axes for 11 ms conforming to IEC 60068-2-27	
Resistance to electrostatic discharge	8 kV level 4 conforming to IEC 61000-4-2	
Resistance to electromagnetic fields	10 V/m level 3 conforming to IEC 61000-4-3	
Resistance to fast transients	1 kV level 3 conforming to IEC 61000-4-4	

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	4.0 cm
Package 1 Width	8.5 cm
Package 1 Length	8.7 cm
Package 1 Weight	60.0 g
Unit Type of Package 2	S01
Number of Units in Package 2	15
Package 2 Height	15 cm
Package 2 Width	15 cm
Package 2 Length	40 cm
Package 2 Weight	1.17 kg
Unit Type of Package 3	S02
Number of Units in Package 3	30
Package 3 Height	15 cm
Package 3 Width	30 cm
Package 3 Length	40 cm
Package 3 Weight	2.238 kg

Offer Sustainability

Green Premium product REACh Declaration	
Yes	
€Yes	

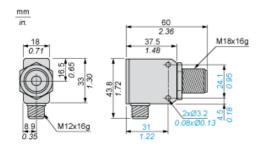
Contractual warranty

Warranty	18 months	

Product data sheet Dimensions Drawings

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Dimensions



Product data sheet Mounting and Clearance

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Minimum Mounting Distances

Side by side



e: respect the distances indicated on the detection curves

Product data sheet Connections and Schema

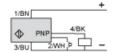
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Wiring Diagram

3-Wire Type

NO outputs, PNP





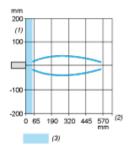
- (1) (+) (2) Teach in (3) (-) (4) Output Prown (+) Teach input (WH)

 - WH White
 - BU Blue
 - BK Black

Product data sheet Performance Curves

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Curves



- (1) Parallel movement
- (2) Distance
- (3) Blind zone for diffuse sensors.